

FIGURE 1A

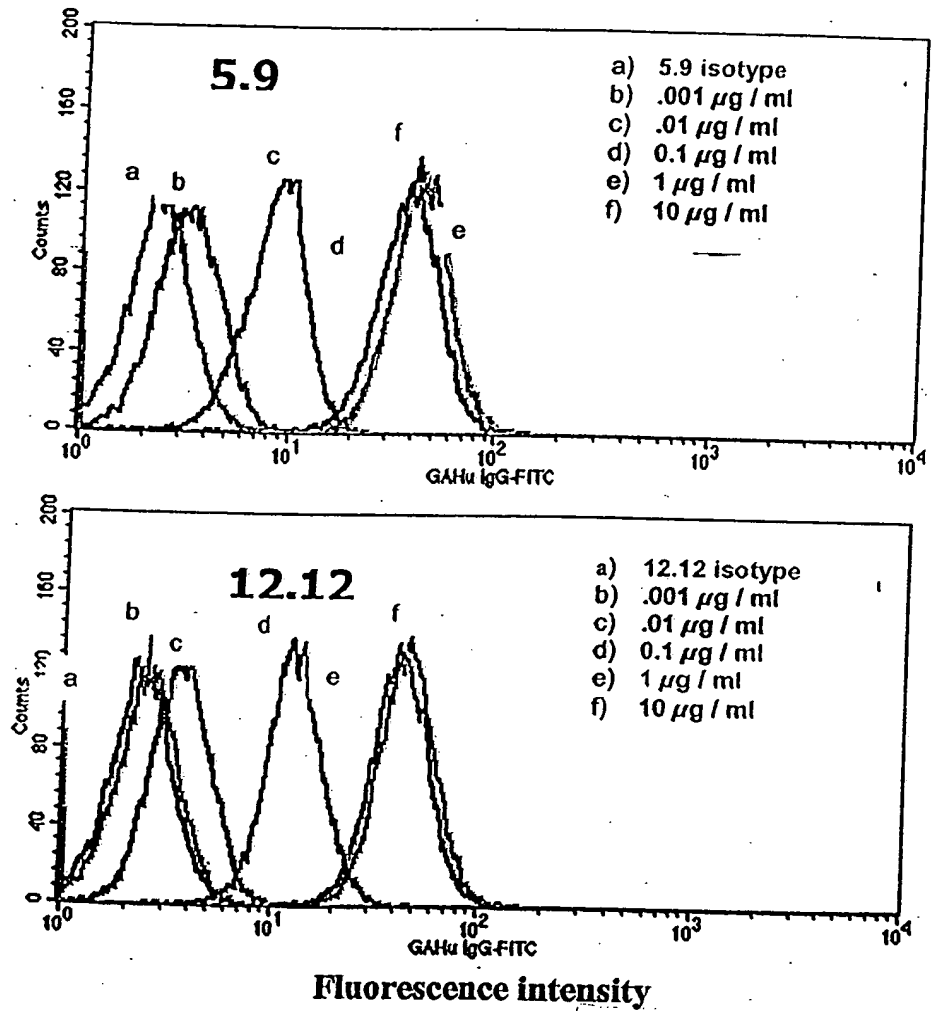


FIGURE 1B

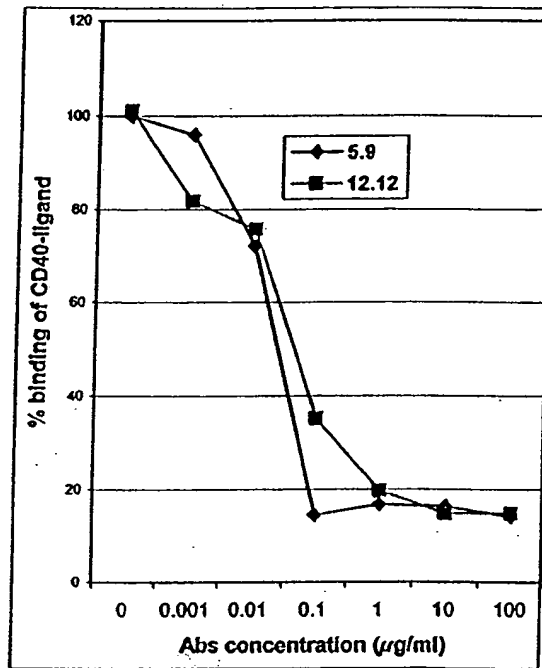


FIGURE 2A

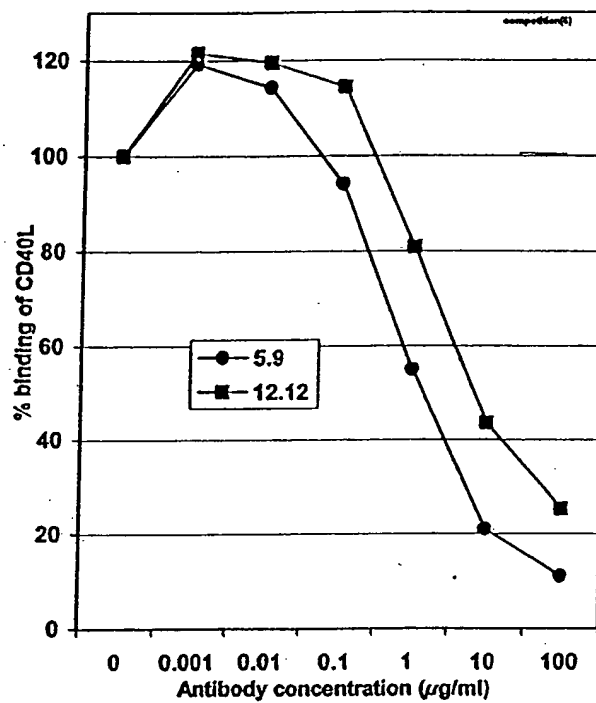


FIGURE 2B

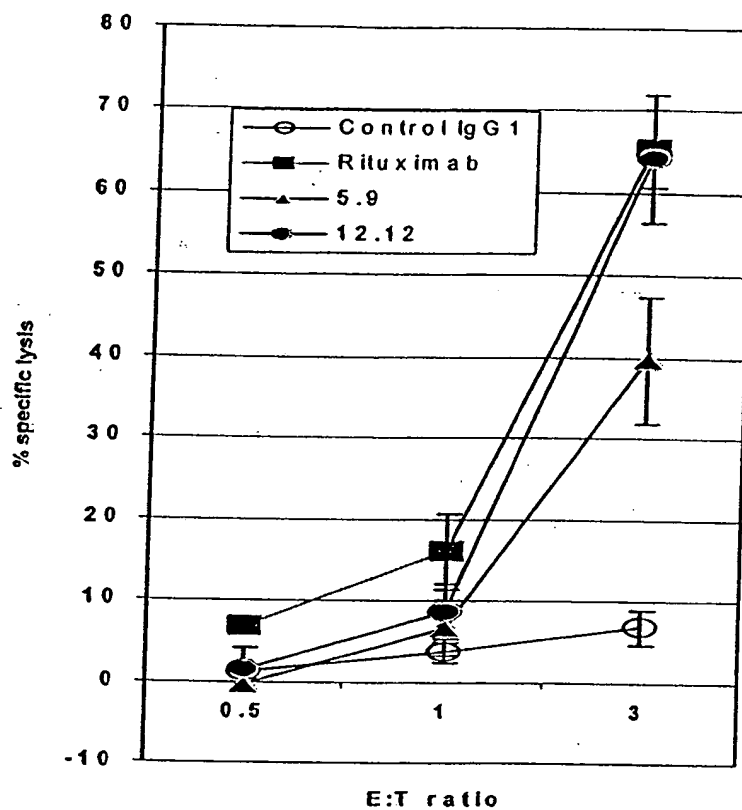


FIGURE 3A

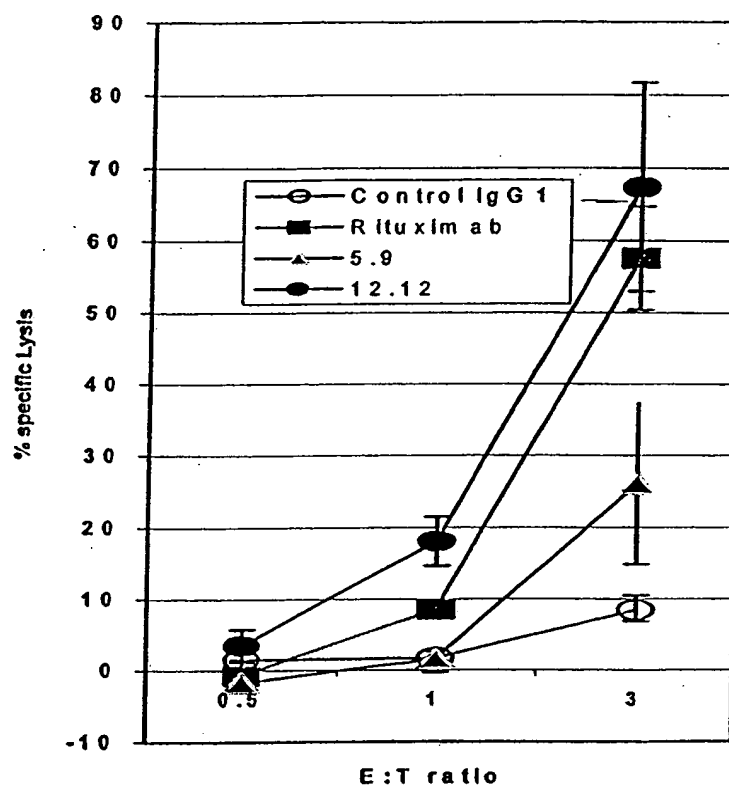


FIGURE 3B

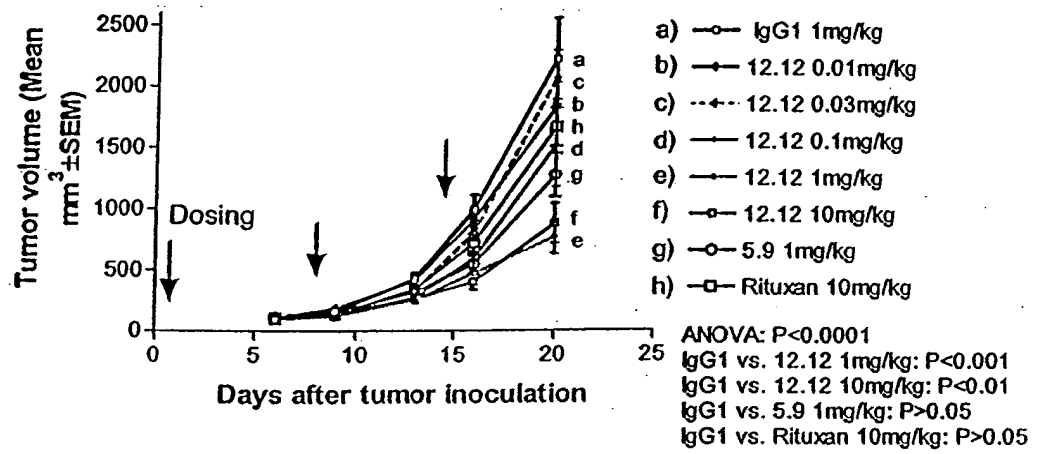


FIGURE 4

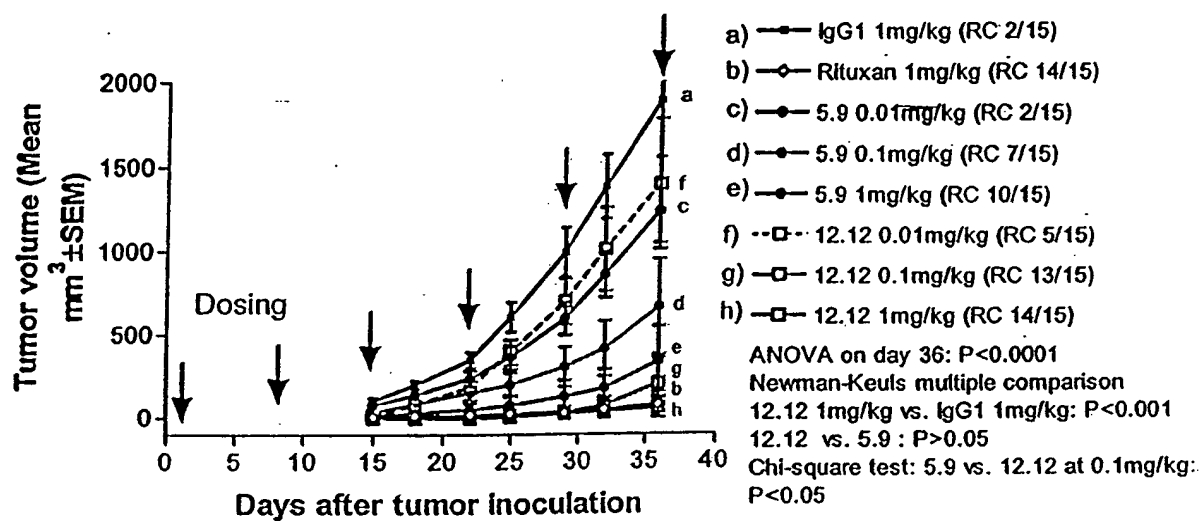


FIGURE 5

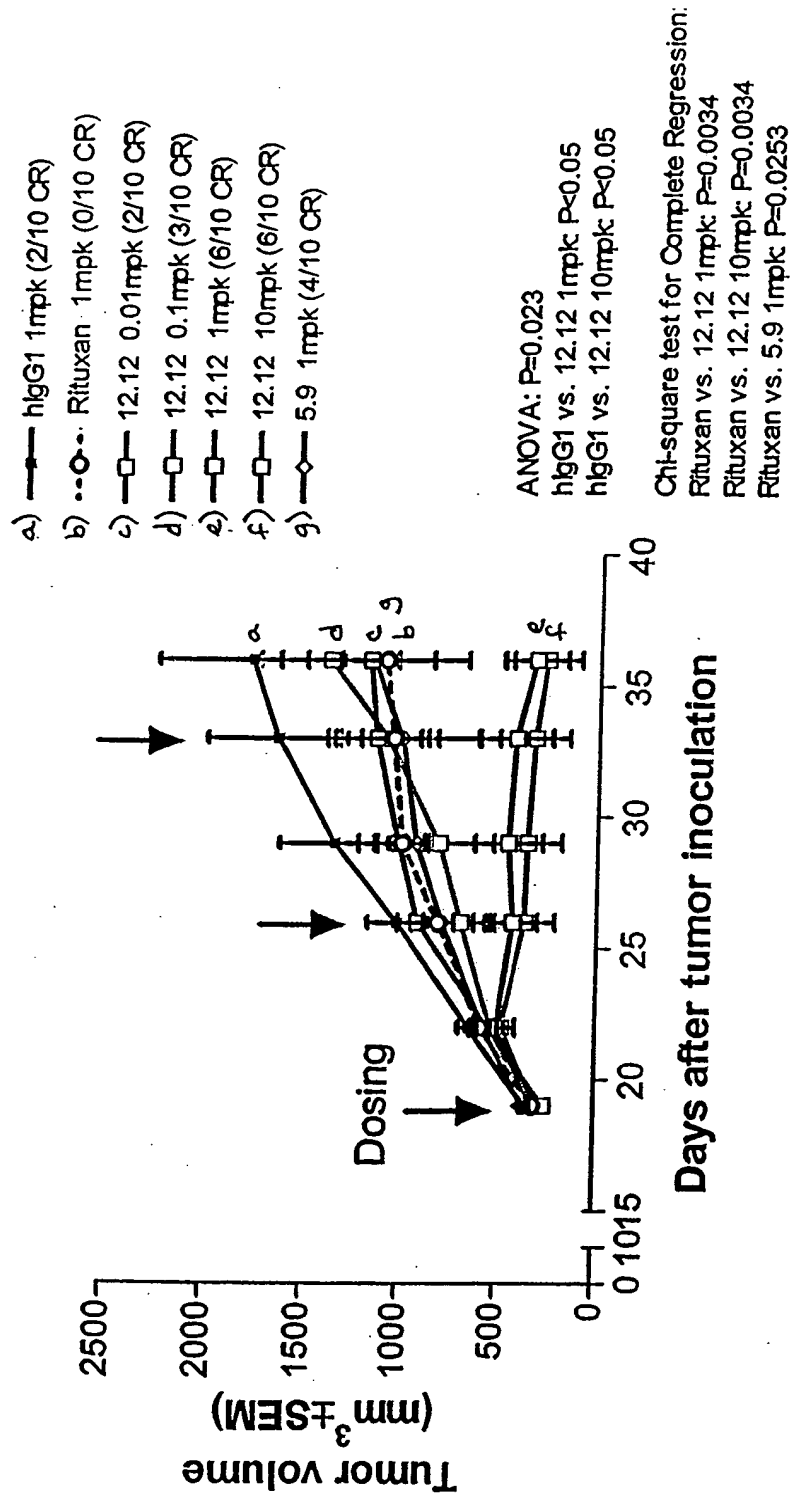


FIGURE 6

FIGURE 7

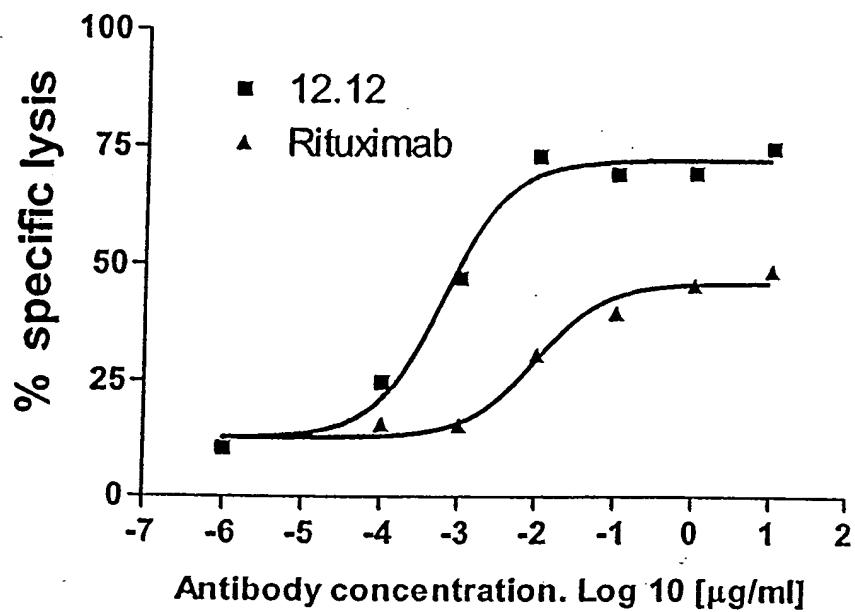


FIGURE 8

FIGURE 9A

CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVPGEPAISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGSNRASG
VPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK
DSTYLSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIGURE 9B

CHIR-12.12 heavy chain:

leader:

MEFGLSWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESNRYHAD
SVKGRFTISRDNKITYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGTLVTVSS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTFSWNSGALTSGVHTFPAVLQSSGL
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF
LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV
MHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTFSWNSGALTSGVHTFPAVLQSSGL
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF
LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV
MHEALHNHYTQKSLSLSPGK

FIGURE 10A

DNA sequence of light chain of CHIR-12.12:

5'atggcgctccctgctcagctcctggggctgctaagtctctgggtctctggatccagtggggatattgtgatgactcagctccactctc
cctgaccgtcacccctggagagccggcctccatctcctgcagggtccagtcagagcctcctgtatagtaattggatacaactatttgattg
gtacctgcagaagccaggcagctccacaggtcctgatctcttgggttctaatacggcctccggggcctgacaggttcagtgga
gtggatcaggcacagattttacactgaaaatcagcagagtgaggctgaggatgttgggtttattactgcatgcaagctcgacaaact
ccattcactttcggccctgggaccaaagtggatatcagacgaactgtggctgcaccatctgtcttcatttcccgccatctgatgagcagt
tgaaatctggaactgcctctgtgtgtcctgtgtaataacttctatcccagagaggccaaagtacagtggaaggtggataacgccctcc
aatcgggtaactcccaggagagtggtcacagagcaggacagcaaggacagcacctacagcctcagcagcacctgacgctgagcaa
agcagactacgagaacacaaagtctacgcctgcgaagtcacccatcagggcctgagctcgcccgtcacaaagagcttcaacaggg
gagagtgttag3'

FIGURE 10B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

5'atggagttgggctgagctgggtttcctgttgctattttaagaggtgtccagtgctcaggtgcagttggtggagtctgggggaggcgt
ggtccagcctgggaggtccctgagactctcctgtgcagcctctggattcaccttcagtagctatggcatgactgggtccgccaggtc
caggcaaggggctggagtgggtggcagttatatcatataggaaagtaatagataccatgcagactccgtgaagggccgattcacca
tctccagagacaattccaagatcacgctgtatctgcaaatgaacagcctcagaactgaggacacggctgtgtattactgtcgagagat
gggggtatagcagcacctgggctgactactggggccagggaacccgtggtcaccgtctcctcagcaagtaccaagggcccatccgt
ctccccctggcgcccgtagcaagagcacctctgggggcacagcggccctgggtgcctggtcaaggactacttccccgaaccgg
tgacggtgtcgtggaactcaggcggcctgaccagcggcgtgcacaccttcccggctgtcctacagtcctcaggactctactccctcag
cagcgtggtgaccgtgccctccagcagcttgggcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtgg
acaagagagttggtgagaggccagcacaggaggagggtgtctgtggaagccaggctcagcgtcctgctgacgcatccc
gctatgcagtcctcagtcaggcagcaaggcaggccccgtctgctcttccaccggaggcctctgcccggccactcatgctcagg
gagagggtcttctggttttccccaggctctgggcaggcacaggctaggtgcccttaaccaggccctgcacacaaaggggcaggt
gctgggctcagacctgccaaagagccatatacgggaggacctgcccctgacctaaagccaccccaaggccaaactctccactccc
tcagctcggacaccttctctctcccagattccagtaactcccaatcttctctcagagcccaaatctgtgacaaaactcacacatgc
ccaccgtgcccaggtgaagccagcccaggcctcgccctccagctcaaggcgggacaggtgccctagagtgcctgcatccagggac
aggccccagccgggtgtgacacgtccacctccatcttctcagcacctgaactcctggggggaccgtcagctctctcttcccccc
aaaacccaaggacacctcatgatctcccggaccctgaggtcacatgcgtggtggtggacgtgagccacgaagacctgaggtca
agttcaactggtacgtggacggcgtggaggtgcataatgccaaagacaaagccgcgggaggagcagtaacagcacgtaccgtgt
ggtcagcgtcctcaccgtcctgcaccaggactggctgaatggcaaggagtacaagtgaaggtctccaacaaagccctcccagccc
ccatcgagaaaaccatctccaaagccaaaggtgggacccgtggggtgcgagggccacatggacagaggccggctcggccaccc
tctgccctgagagtgaccgtgtaccaacctctgtccttacagggcagccccgagaaccacaggtgtacacctgcccccatcccg
gaggagatgaccaagaaccagggtcagctgacctgcctggtcaaggcttctatcccagcgacatcgccgtggagtgggagagcaa
tgggcagccggagaaactacaagaccacgcctcccgtgctgactccgacggctccttctctctatagcaagctcaccgtggac
aagagcaggtggcagcagggaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccactacacgcagaagacgtctcc
ctgtctccgggtaaatga3'

FIGURE 11A

CHIR-5.9 light chain:

leader:

MALLAQLLGLLMLWVPGSSG

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFFRRLSG
VPDRFSGSGAGTDFTLKISRVEAEDVGVIYCMQVTQFPHTFGQGTREIK

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSK
DSTYLSLSSTLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC

FIGURE 11B

CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDS DTRYSP
SFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGR DYYYYYGMDVWGQGT TTVTVS
S

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGL
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF
LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLT VLVHQDWLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV
MHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVT VSWNSGALTSGVHTFPAVLQSSGL
YSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF
LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLT VLVHQDWLNQKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL
TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSV
MHEALHNHYTQKSLSLSPGK

FIGURE 12A

Coding sequence for short isoform of human CD40:

```
1 atggttcgtc tgcctctgca gtgcgtcctc tggggctgct tctgaccgc tgtccatcca
61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg
121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcaactgaaac ggaatgcctt
181 ccttgccgtg aaagcgaatt cctagacacc tggaacagag agacacactg ccaccagcac
241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
301 accatctgca cctgtgaaga aggctggcac tgtacgagtg aggcctgtga gagctgtgic
361 ctgcaccgct catgctcgcc cggttttggg gtcaagcaga ttgctacagg ggtttctgat
421 accatctgcg agccctgccc agtcggcttc ttctccaatg tctcatctgc ttctgaaaaa
481 tgcaccctt ggacaaggtc cccaggatcg gctgagagcc ctggtggtga tccccatcat
541 cttcgggatc ctgtttgcca tctcttggg gctggcttt atcaaaaagg tggccaagaa
601 gccaaccaat aa
```

FIGURE 12B

Encoded short isoform of human CD40:

```
1 mvrplqcvi wgclltavhp epptacrekq ylinsqccsl cqpqgklvsd cteftetecl
61 pcgesefldt wnrethchqh kydpnlglr vqqkgtsetd tictceegwh ctseacescv
121 lhrscspgfg vkqiatgvsd ticepcpvfg fsnvssafek chpwtrspgs aespqgdphh
181 lrdpvchplg aglyqkkgqe anq
```

FIGURE 12C

Coding sequence for long isoform of human CD40:

```
1 atggttcgtc tgctctgca gtgcgtcctc tggggtgct tgctgaccgc tgtccatcca
61 gaaccaccca ctgcatgcag agaaaaacag tacctaataa acagtcagtg ctgttctttg
121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcaactgaaac ggaatgcctt
181 ccttgcggtg aaagcgaatt cctagacacc tggaacagag agacacactg ccaccagcac
241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
301 accatctgca cctgtgaaga aggctggcac gtacagagtg aggcctgtga gagctgtgtc
361 ctgcaccgct catgctcgcc cggctttggg gtcaagcaga ttgctacagg ggtttctgat
421 accatctgcg agccctgccc agtcggcttc ttctccaatg tgtcatctgc tticgaaaaa
481 tgcaccctt ggacaagctg tgagacaaa gacctggttg tgcaacaggc aggcacaaac
541 aagactgatg ttgtctgtgg tcccaggat cggctgagag ccctggtggt gatccccatc
601 atcttcggga tctgtttgc catctcttg gtgctggtct ttatcaaaaa ggtggccaag
661 aagccaacca ataaggcccc ccacccaag caggaacccc aggagatcaa tttcccgac
721 gatcttctg gctccaacac tgctgtcca gtgcaggaga cttacatgg atgccaaccg
781 gtcaccaggg aggatggcaa agagagtcgc atctcagtcg aggagagaca gtga
```

FIGURE 12D

Encoded long isoform of human CD40:

```
1 mvrplqcvi wgclltavhp epptacrekq ylinsqccsl cqpqqklvsd ctefteteci
61 pcgesefldt wnrethchqh kydpnlglr vqqkgtsetd tictceegwh ctseacescv
121 lhrscspgfg vkqiatgvsd ticepcpvvf fsnvssafek chpwtscetk dlvvqqagtn
181 ktdvvcgpqd rlrallvivi ifgilfaill vlvfikkvak kptnkaphpk qepqeinfpd
241 dlpgsntaap vqetlhgcqp vtqedgkesr isvqerq
```

FIGURE 13

